


INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. 20434-758		SERIAL NO. To Be Assigned	
		APPLICANT Islam			
		FILING DATE Herewith		GROUP Unknown	

J1049 U.S. PTO
 10/033848

 12/19/01

U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DM	4,063,106	12/113/77	Ashkin et al.	307	88.3	
	4,685,107	8/4/87	Kafka et al.	372	6	
	4,740,974	4/26/88	Byron	372	3	
	5,039,199	8/13/91	Mollenauer et al.	359	334	
	5,050,183	9/17/91	Duling, III	372	94	
	5,058,974	10/22/91	Mollenauer	385	27	
	5,117,196	5/26/92	Epworth et al.	359	333	
	5,132,976	7/21/92	Chung et al.	372	6	
	5,134,620	7/28/92	Huber	372	6	
	5,191,586	3/2/93	Huber	372	6	
	5,191,628	3/2/93	Byron	385	27	
	5,218,655	6/8/93	Mizrahi	385	39	
	5,268,910	12/7/93	Huber	372	6	
	5,295,016	3/15/94	Van Deventer	359	347	
	5,323,404	6/21/94	Grubb	372	6	
	5,359,612	10/25/94	Dennis et al.	372	18	
	5,450,427	9/12/95	Fermann et al.	372	18	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	

EXAMINER <u>Danielle Montblanc</u>	DATE CONSIDERED <u>6/30/02</u>
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DM	5,473,622	12/5/95	Grubb	372	6		
	5,477,555	12/19/95	Debeau et al.	372	25		
	5,479,291	12/26/95	Smith et al.	359	333		
	5,485,481	1/16/96	Ventrudo et al.	372	6		
	5,497,386	3/5/96	Fontana	372	18		
	5,504,771	4/2/96	Vahala et al.	372	94		
	5,513,194	4/30/96	Froberg et al.	372	6		
	5,521,738	5/28/96	Froberg	359	184		
	5,530,710	6/25/96	Grubb	372	6		
	5,541,947	7/30/96	Mourou et al.	372	25		
	5,542,011	7/30/96	Robinson	385	24		
	5,577,057	11/19/96	Friskén	372	18		
	5,617,434	4/1/97	Tamura et al.	372	6		
	5,623,508	4/22/97	Grubb et al.	372	3		
	5,659,559	8/19/97	Ventrudo et al.	372	6		
	5,673,281	9/30/97	Byer	372	3		
	5,734,665	3/31/98	Jeon et al.	372	6		
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EXAMINER <i>Danielle Monbleau</i>			DATE CONSIDERED <i>6/30/02</i>				

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DM	5,757,541	5/26/98	Fidric	359	341		
	5,838,700	11/17/98	Dianov et al.	372	6		
	5,841,797	11/24/98	Ventrudo et al.	372	6		
	5,847,862	12/8/98	Chraplyvy et al.	359	337		
	5,861,981	1/19/99	Jabr	359	341		
	5,880,866	3/9/99	Stolen	359	138		
	5,883,736	3/16/99	Oshima et al.	359	341		
	5,887,093	3/23/99	Hansen et al.	385	27		
	5,920,423	7/6/99	Grubb et al.	359	341		
	5,768,012	6/16/98	Zanoni et al.	359	341		
	5,673,280	9/30/97	Grubb et al.	372	3		
	5,659,644	8/19/97	DiGiovanni et al.	385	31		
	5,389,779	2/14/95	Betzig et al.	250	216		
	5,323,404	6/21/94	Grubb	372	6		
	5,226,049	7/6/93	Grubb	372	6		
	5,225,925	7/6/93	Grubb et al.	359	341		
	5,825,520	10/20/98	Huber	359	130		
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EXAMINER <u>Danienne Moulton</u>			DATE CONSIDERED <u>6/30/02</u>				

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DM	5,825,520	10/20/98	Huber	359	130		
	5,798,855	8/25/98	Alexander et al.	359	177		
	5,726,784	3/10/98	Alexander et al.	359	125		
	5,701,186	12/23/97	Huber	359	125		
	5,659,351	8/19/97	Huber	348	7		
	5,600,473	2/4/97	Huber	359	179		
	5,579,143	11/26/96	Huber	359	130		
	5,557,442	9/17/96	Huber	359	179		
	5,555,118	9/10/96	Huber	359	125		
	5,532,864	7/2/96	Alexander et al.	359	177		
	5,504,609	4/2/96	Alexander et al.	359	125		
	5,467,212	11/14/95	Huber	359	168		
	5,416,629	5/16/95	Huber	359	182		
	5,400,166	3/21/95	Huber	359	173		
	5,373,389	12/13/94	Huber	359	195		
	5,331,449	7/19/94	Huber et al.	359	125		
	5,321,707	6/14/94	Huber	372	6		
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EXAMINER <u>Darrienne Merileau</u>				DATE CONSIDERED <u>6/30/07</u>			

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pm	5,321,543	6/14/94	Huber	359	187		
/	5,301,054	4/5/94	Huber et al.	359	132		
	5,295,209	3/15/94	Huber	385	37		
	5,293,545	3/8/94	Huber	359	111		
	5,283,686	2/1/94	Huber	359	337		
	5,271,024	12/14/93	Huber	372	6		
	5,257,124	10/26/93	Glaab et al.	359	124		
	5,243,609	9/7/93	Huber	372	9		
	5,222,089	6/22/93	Huber	372	6		
	5,212,579	5/18/93	Huber et al.	359	182		
	5,210,631	5/11/93	Huber et al.	359	132		
	5,208,819	5/4/93	Huber	372	32		
	5,200,964	4/6/93	Huber	372	26		
	5,187,760	2/16/93	Huber	385	37		
	5,166,821	11/24/92	Huber	359	238		
	5,159,601	10/27/92	Huber	372	6		
5,153,762	10/6/92	Huber	359	125			
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EXAMINER <i>Darlene Mendez</i>			DATE CONSIDERED <i>6/30/02</i>				

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DM	5,151,908	9/29/92	Huber	372	6	
	5,140,456	8/18/92	Huber	359	341	
	5,268,910	12/7/93	Huber	372	6	
	5,107,360	4/21/92	Huber	359	124	
	4,831,616	5/16/89	Huber	370	3	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
DM	✓	Sun, Y. et al., "80nm Ultra-Wideband Erbium-Doped Silicia Fibre Amplifier" ELECTRONICS LETTERS, November 6, 1997, Vol. 33, No. 23, pp. 1965-1967				
	✓	Wysocki, P.F. et al., "Broad-Band Erbium-Doped Fiber Amplifier Flattened Beyond 40nm Using Long-Period Grating Filter", IEEE PHOTONICS, Vol. 9, No. 10, October 10, 1997, pp. 1343-1345				
		Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY: LETTERS, Vol. 8, No. 7, July 7, 1996, pp. 879-881				
		Yamada, M. et al., "A Low-Noise and Gain-Flattened Amplifier Composed of a Silica-Based and a Fluoride-Based Er3+-Doped Fiber Amplifier in a Cascade Configuration", IEEE PHOTONICS LETTERS, Vol. 8, No. 5, May 1996, pp. 620-622				
		Ma, M.X. et al., "240-km Repeater Spacing in a 5280-km WDM System Experiment Using 8x2.5 Gb/s NRZ Transmission", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 6, June 1998, pp. 893-895				
	✓	Masuda, H. et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distributed Raman Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 4, April 1998, pp. 516-518				
EXAMINER <u>Darlene M. [Signature]</u> DATE CONSIDERED <u>6/30/02</u>						

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DM	Masuda, H. et al., "Wide-Band and Gain Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No.6, June 1999, pp. 647-649						
	Kawaii, S. et al., "Ultra-Wide, 75nm 3dB Gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification", ELECTRONIC LETTERS, Vol. 34, No. 9, April 30, 1998, pp. 897-898						
	Kawai, S. et al., "Ultrawide, 75nm 3dB Gain-Band Optical Amplifier Utilizing Erbium-Doped Fluoride Fiber and Raman Fiber", OFC TECHNICAL DIGEST, 1998						
	Kidorf, H. et al., "Pump Interactions in a 100-nm Bandwidth Raman Amplifier", IEEE ELECTRONICS TECHNOLOGY LETTERS, Vol. 11, No. 5, May 1999, pp.530-532						
	Ono, H. et al., "Gain-Flattened Er ³⁺ -Doped Fiber Amplifier for a WDM Signal in the 1.57-1.60- μ m Wavelength Region", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 9, No. 5, May 1997, pp.596-598						
	Hansen, P.B. et al., "529km Unrepeated Transmission at 2.488 Gbit/s Using Dispersion Compensation, Forward Error Correction, and Remote Post-and Pre-amplifiers Pumped By Diode-Pumped Raman Lasers", IEEE ELECTRONICS LETTERS ONLINE NO. 19951043, July 7, 1998						
	Guy, M.J. et al., "Lossless Transmission of 2ps Pulses Over 45km of Standard Fibre at 1.3 μ m Using Distributed Raman Amplification", ELECTRONICS LETTERS, Vol. 34, No.8, April 6, 1998, pp. 793-794						
	Dianov, E.M. et al., "Highly Efficient 1.3 μ m Raman Fibre amplifier", ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 669-670						
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24 μ m", ELECTRONICS LETTERS, Vol. 34, No.7, April 2, 1998, pp. 680-681						
EXAMINER <u>Danielle Montplaisir</u> DATE CONSIDERED <u>6/30/02</u>							

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DM	6,052,393	04/18/00	Islam	372	6		
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DM	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 8, No. 7, July 1996, pp. 879-881						
	Masuda, M. et al., "Wideband, Gain-Flattened, Erbium-Doped Fibre Amplifiers with 3dB Bandwidths of >50nm", ELECTRONICS LETTERS, Vol. 33, No. 12, June 5, 1997, pp. 1070-1072						
	Yang, F.S. et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification", ELECTRONICS LETTERS, Vol. 33, No. 21, October 9, 1997, pp. 1812-1813						
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	Paschotta, R. et al., "Ytterbium-Doped Fiber Amplifiers", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. 33, No. 7, July 1997, pp. 1049-1056						
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24 μm ", ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 680-681						
	Grubb, S.G. et al., "Fiber Raman Lasers Emit at Many Wavelengths", LASER FOCUS WORLD, February 1996, pp. 127-134						
	Mollenauer, L.F. et al., "Dispersion-Managed Solitons for Terrestrial Transmission", OPTICAL SOCIETY OF AMERICA, 1999						
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	Spirit, D.M. et al., "Systems Aspects of Raman Fibre Amplifiers", OPTICAL AMPLIFIERS FOR COMMUNICATION, Vol. 137, Pt. J, No. 4, August 1990, pp. 221-224						
	Mollenauer, L.F. et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. QE-22, No. 1, January 1986, pp. 157-173						
EXAMINER		Dorienne Monblanc		DATE CONSIDERED		6/30/02	

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	0 903 876 A1	3/24/99	Europe	H04B	10/17		
	0 936 761 A1	8/18/99	Europe	H04B	10/18	<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
DM	Marhic, M.E. et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques", OPTICAL SOCIETY OF AMERICA, 1998, Vol. 15, No. 3, pp. 958-963						
	Hansen, P.B. et al., "Rayleigh Scattering Limitations in Distributed Raman Pre-Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 1, January 1998, pp. 159-161						
	Ikeda, M., "Stimulated Raman Amplification Characteristics in Long Span Single-Mode Silica Fibers", OPTICS COMMUNICATIONS, Vol. 39, No. 3, 1981, pp. 148-152						
	Solbach, K. et al., "Performance Degradation Due to Stimulated Raman Scattering in Wavelength-Division-Multiplexed Optical-Fibre Systems", ELECTRONICS LETTERS, Vol. 19, No. 6, August 4, 1983, pp. 641-643						
	Grandpierre, A.G. et al., "Theory of Stimulated Raman Scattering Cancellation in Wavelength-Division-Multiplexed Systems via Spectral Inversion", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 10, October 1999, pp. 1271-1273						
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	Stolen, R.H. et al., "Raman Gain in Glass Optical Waveguides", APPL. PHYS. LETT. Vol. 22, No. 6, March 15, 1973, pp. 276-278						
	Stolen, R.H. et al., "Development of the Stimulated Raman Spectrum in Single-Mode Silica Fibers", OPTICAL SOCIETY OF AMERICA, Vol. 1, No. 4, August 1984, pp. 662-667						
	Nissov, M. et al., "100 Gb/s (10x10Gb/s) WDM Transmission Over 7200 km Using Distributed Raman Amplification", CENTER FOR BROADBAND TELECOMMUNICATIONS, pp. 9-12						
	Takachio, N. et al., "32x10 Gb/s Distributed Raman Amplification Transmission with 50-GHz Channel Spacing in the Zero-Dispersion Region over 640km of 1.55-μm Dispersion-shifted Fiber", NTT LABS						
EXAMINER <i>Danielle Mouléau</i>			DATE CONSIDERED <i>6/30/02</i>				

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